

AMENDMENTS TO THE CLAIMS

Please amend claims 31 and 32, and cancel claims 1-30, as set forth in the listing of claims that follows:

1-30. (Cancelled)

31. (Currently Amended) A planar temperature sensor comprising:

a substrate;

a sensing material disposed on the substrate, wherein the sensing material comprises a metal ~~is~~ selected from the group consisting of platinum, rhodium, and palladium ~~and mixtures and alloys comprising at least one of the foregoing sensing materials;~~

a protective coating disposed on at least a portion of the sensing material, wherein the protective coating comprises an aluminide or silicide compound containing the metal ~~of the sensing material.~~

32. (Currently Amended) The planar temperature sensor of Claim 31, wherein the protective coating further comprises an additional material selected from the group consisting of yttrium, and zirconium, ~~and mixtures comprising at least one of the foregoing materials.~~

33. (Original) The planar temperature sensor of Claim 32, wherein the protective coating has a thickness of about 2 nm to about 20 nm.